



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/678,800

10/03/2003

Todd P. Guay

oracle01.026

3882

7590
Gordon E. Nelson
57 Central St.
P.O. Box 782
Rowley, MA 01969

03/16/2009

EXAMINER

AHLUWALIA, NAVNEET K

ART UNIT

PAPER NUMBER

2166

MAIL DATE

DELIVERY MODE

03/16/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

DETAILED ACTION

1. This communication is in response to the Amendment filed 12/03/2008.

Response to Arguments

2. Claims 1 – 8 and 25 – 32 are pending in this Office Action. After a further search and a thorough examination of the present application, claims 1 – 8 and 25 – 32 remain rejected.
3. Applicant's arguments filed with respect to claims 1 – 8 and 25 – 32 have been fully considered but they are not persuasive.

Applicant argues that there is no teaching in the combination of Bakalash and Lore, specifically Lore as it does not disclose an aggregate entry that includes a field whose value is a representation of a set of individual members, the individual members being derived from values contained in entries belonging to the plurality of the entries, and the representation specifies the individuals members of the set.

In response to Applicant's argument, the Examiner submits that Bakalash and Lore in combination and specifically Lore discloses an aggregate entry that includes a field whose value is a representation of a set of individual members, the individual members being derived from values contained in entries belonging to the plurality of the entries, and the representation specifies the individuals members of the set. This is disclosed in Lore in paragraphs 125 and 191. In paragraphs 125 discloses aggregated records, keys and the address files of the data stored or cached. Furthermore,

Art Unit: 2166

paragraph 191 teaches in detail the function of the aggregated entry which includes a field that represents the individual members and these members are specified along with their addresses..

Hence, Applicant's arguments do not distinguish the claimed invention over the prior art of record. In light of the foregoing arguments, the 103 rejections are sustained.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1 – 8 and 25 – 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bakalash et al. ('Bakalash' herein after) (US 2002/0029207 A1) further in view of Lore et al. ('Lore' herein after) (US 2002/0099691 A1).

With respect to claim 1,

Bakalash discloses a method of aggregating a plurality of entries in a table in a database management system into an aggregated entry in the table or another table in the database management system, the method comprising the steps of: making the aggregated entry, the aggregated entry representing the plurality of entries and including a field whose value is a representation of a set of individual members, the individual members being derived from the values contained in entries belonging to the plurality of the entries the representation specifying the individual members of the set (paragraphs 25, 29, 55 – 57, 68 and 73 – 74, Bakalash).

Bakalash does not disclose the aggregated entry as argued by the applicant.

Lore, however teaches the aggregated entry as explained by applicant. This disclosure can be found in paragraphs 35 – 39 and 68 – 71.

It would have been obvious to one of ordinary skill in the art of data processing at the time of the present invention to combine the teachings of cited references because both applications/inventions are directed towards the same field of study, namely aggregation of data. Furthermore, the aggregated entry type disclosed in Lore diminishes space/memory wasted in storing the full detail data of the pre-aggregated data (paragraphs 35 – 39, Lore).

7. Claims 2 – 8 are rejected under the same rationale as claim 1 above.

Art Unit: 2166

With respect to claim 2,

Bakalash discloses the method set forth in claim 1 further comprising the step of: deleting the plurality of entries represented by the aggregated entry (paragraphs 216, 258, Bakalash).

With respect to claim 3,

Bakalash discloses the method set forth in claim 1 wherein: the representation of the set has a size which varies with the number of members in the specified in the representation (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 4,

Bakalash discloses the method set forth in claim 3 wherein: The representation of the set comprises a character string wherein the character string comprising a sequence of for each individual member of the set and separator characters separating each sequences of characters (Figure 10A-B, Bakalash).

With respect to claim 5,

Bakalash discloses the method set forth in claim 1 wherein: the representation of the set has a size which is constant regardless of the number of the individual members in the set (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 6,

Bakalash discloses the method set forth in claim 5 wherein: the representation of the set represents the set as a string of elements, there being an element corresponding to each potential member of the set, the presence of a particular member in the set being indicated by a first value of the corresponding element and the absence of the particular member being indicated by a second value of the corresponding element (paragraph 59 – 62, Bakalash).

With respect to claim 7,

Bakalash discloses the method set forth in claim 1 wherein: in the step of deriving members of the set, the values from which the members of the set are derived are time values (Figures 17A, 18A-B, Bakalash).

With respect to claim 8,

Bakalash discloses the method set forth in claim 1 wherein: in the step of deriving members of the set, the values from which the members of the set are derived are location values (paragraph 59 – 62 and Figures 17A, 18A-B, Bakalash).

With respect to claim 25,

Bakalash discloses a data storage device, characterized in that: the data storage device contains code which when executed by a processor performs a method of aggregating a plurality of entries in a table in a database management system into an aggregated entry in the table or another table in the database management system, the

Art Unit: 2166

method comprising the steps of: making the aggregated entry, the aggregated entry representing the plurality of entries and including a field whose value is a representation of a set the representation specifying individual members of the set of individual members, the individual members being derived from the values contained in entries belonging to the plurality of the entries the representation specifying the individual members of the set (paragraphs 55 – 57 and 73 – 74, Bakalash).

Bakalash does not disclose the aggregated entry as argued by the applicant.

Lore, however teaches the aggregated entry as explained by applicant. This disclosure can be found in paragraphs 35 – 39 and 68 – 71.

It would have been obvious to one of ordinary skill in the art of data processing at the time of the present invention to combine the teachings of cited references because both applications/inventions are directed towards the same field of study, namely aggregation of data. Furthermore, the aggregated entry type disclosed in Lore diminishes space/memory wasted in storing the full detail data of the pre-aggregated data (paragraphs 35 – 39, Lore).

8. Claims 26 – 32 are rejected under the same rationale as claim 25 above.

With respect to claim 26,

Bakalash discloses the data storage device set forth in claim 25 further characterized in that: the method further comprises the step of deleting the plurality of entries represented by the aggregated entry (paragraphs 216, 258, Bakalash).

With respect to claim 27,

Bakalash discloses the data storage device set forth in claim 25 further characterized in that: the representation of the set has a size which varies with the number of members specified in the representation (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 28,

Bakalash discloses the data storage device set forth in claim 27 further characterized in that: The representation of the set represents the set as a character string wherein each member is represented by a sequence of characters and the sequences of characters are separated by a separator character (Figure 10A-B, Bakalash).

With respect to claim 29,

Bakalash discloses the data storage device set forth in claim 25 further characterized in that: the representation of the set has a size which is constant regardless of the number of members in the set (paragraphs 41, 71 and 94, Bakalash).

With respect to claim 30,

Bakalash discloses the data storage device set forth in claim 29 further characterized in that: the representation of the set represents the set as a string of

Art Unit: 2166

elements, there being an element corresponding to each potential member of the set, the presence of a particular member in the set being indicated by a first value of the corresponding element and the absence of the particular member being indicated by a second value of the corresponding element (paragraph 59 – 62, Bakalash).

With respect to claim 31,

Bakalash discloses the data storage device set forth in claim 25 further characterized in that: in the step of deriving members of the set, the values from which the members of the set are derived are time values (Figures 17A, 18A-B, Bakalash).

With respect to claim 32,

Bakalash discloses the data storage device set forth in claim 25 further characterized in that: in the step of deriving members of the set, the values from which the members of the set are derived are location values (paragraph 59 – 62 and Figures 17A, 18A-B, Bakalash).

Conclusion

9. THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Navneet K. Ahluwalia whose telephone number is 571-272-5636.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alam T. Hosain can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Navneet K. Ahluwalia/
Examiner, Art Unit 2166

Dated: 03/10/2009

/Khanh B. Pham/
Primary Examiner, Art Unit 2166